



A.D. 1877, 5th MARCH. N° 878.

### Preparation of Beverages Having Milk as their Basis.

LETTERS PATENT to John Henry Johnson, of 47, Lincoln's Inn Fields, in the County of Middlesex, Gentleman, for the Invention of "IMPROVEMENTS IN THE PREPARATION OF BEVERAGES HAVING MILK AS THEIR BASIS." A communication from abroad by Edward Kokosinski, Pharmaceutical Chemist, Edouard Landowski, Doctor of Medicine, and Pawel Landowski, Chemist, all of Paris, in the Republic of France.

Sealed the 20th July 1877, and dated the 5th March 1877.

PROVISIONAL SPECIFICATION left by the said John Henry Johnson at the Office of the Commissioners of Patents on the 5th March 1877.

JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, Gentleman. "IMPROVEMENTS IN THE PREPARATION OF BEVERAGES HAVING MILK AS THEIR BASIS." A communication from abroad by Edward Kokosinski, Pharmaceutical Chemist, Edouard Landowski, Doctor of Medicine, and Pawel Landowski, Chemist, all of Paris, in the Republic of France.

This Invention relates to the preparation of various beverages having milk as their basis, which may be classified as follows:—

- 10 1. Milk beer (which may be of single or double strength).
2. Spirit or alcohol of milk.
3. Liqueur of milk.

In order to prepare milk beer it is proposed to substitute milk from which the caseine has been previously separated for the water usually employed for the infusion or boiling of the malt.

15 When it is desired to produce beer of double strength, the whey employed is concentrated, that is to say, reduced by evaporation to say about one-half of its original volume.

Spirit or alcohol of milk is obtained by first evaporating the milk to say one-quarter of its original volume, and then submitting it to lacto-alcoholic fermentation and distilling it in order to collect the alcohol formed.

The liqueur of milk is prepared with alcohol obtained by the fermentation of the milk, and it is edulcorated or sweetened with sugar of milk or lactine converted into galactine and dissolved in the whey.

[Price 2d.]



*Johnson's Impts. in the Preparation of Beverages Having Milk as their Basis.*

Sugar and perfumes of any suitable description may also be employed in the manufacture of this liqueur as may be found desirable.

SPECIFICATION in pursuance of the conditions of the Letters Patent filed by the said John Henry Johnson in the Great Seal Patent Office on the 3rd September 1877.

JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, Gentleman. "IMPROVEMENTS IN THE PREPARATION OF BEVERAGES HAVING MILK AS THEIR BASIS." A communication from abroad by Edward Kokosinski, Pharmaceutical Chemist, Edward Landowski, Doctor of Medicine, and Pawel Landowski, Chemist, all of Paris, in the Republic of France.

The said Invention relates to the preparation of various beverages having milk as their basis, which may be classified as follows:—

1. Milk beer, which may be of single or double strength.
2. Spirit or alcohol of milk.
3. Liqueur of milk.

In order to prepare milk beer, milk from which the caseine has been previously separated is substituted for the water usually employed for the infusion or boiling of the malt.

When it is desired to produce beer of double strength, the whey employed is concentrated, that is to say, reduced by evaporation to say about one-half of its original volume.

Spirit or alcohol of milk is obtained by first evaporating the milk to say one-quarter of its original volume and then submitting it to lacto-alcoholic fermentation, and distilling it in order to collect the alcohol formed.

The liqueur of milk is prepared with the alcohol obtained by the fermentation of the milk, and it is edulcorated or sweetened with sugar of milk or lactine converted into galactine and dissolved in the whey.

Sugars and perfumes of any suitable description may also be employed in the manufacture of this liqueur as may be found desirable.

It is obvious also that any description of milk may be employed in the manufacture of all or any of the beverages herein-before described.

Having now described and particularly ascertained the nature of the said Invention, and the manner in which the same is or may be used or carried into effect, I would observe in conclusion that what I consider to be novel and original, and therefore claim as the Invention secured to me by the herein-before in part recited Letters Patent is, the production of beverages having milk as their basis, substantially as herein-before described.

In witness whereof, I, the said John Henry Johnson, have to this my Specification set my hand and seal, the Twenty-ninth day of August, One thousand eight hundred and seventy-seven.

J. HENRY JOHNSON. (L.S.)